

DRIVE TRAIN COMPRISING AN INTERNAL COMBUSTION
ENGINE AND TWO ELECTRIC DRIVE UNITS

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BACKGROUND AND SUMMARY OF THE INVENTION

[0001] The invention relates to a drive train comprising an internal combustion engine and two electric drive units, and to a method for operating the same. Furthermore, the invention relates to a group of drive trains.

[0002] DE 196 06 771 C2 discloses a hybrid drive for motor vehicles, which has an internal combustion engine and two electric drive units. A first power branch is provided between an engine shaft of the internal combustion engine and an output element, such as an output shaft. The drive torque of the internal combustion engine passes via said power branch. The engine shaft can be coupled directly to the output shaft via a clutch. The first electric drive unit exchanges power with the first power branch in such a way that the drive torque of the first electric drive unit can be superimposed on the drive torque of the internal combustion engine. The second power branch is operated by the second electric drive unit. The power of the second drive unit is superimposed on the power of the first power branch and that of the second power branch, that is to say the power of the internal combustion engine and, if appropriate, the power of the first electric